JATDI News
June 2001

Joint Aviation Technical Data Integration — Product Data for the Millennia

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PURPOSE OF THE JATDI NEWSLETTER

The JATDI Project Management Office (PMO) in an effort to inform its customers, users, and other interested personnel about the current status and key upcoming events have developed this information-sharing forum. The PMO intends to update and issue a newsletter every quarter. A JATDI Newsletter email will be issued announcing the full quarterly newsletter is now available for viewing on the JATDI website (with a direct link provided). We believe this will keep the bandwidth requirement to a minimum but allow in-depth and graphics rich articles to be developed.

All newsletters are located and archived on the JATDI Website Program Information page at http://jatdi.redstone.army.mil/proginfo/index.html.

Questions, comments, or requests for additional information should be sent to jatdi@intergraph.com. Be sure to include *"JATDI Newsletter"* in the subject line of your email. Your email will be processed as soon as possible and a JATDI team member will be in contact with you.

FROM THE PMO (PROJECT MANAGER, STACY CUMMINGS)

It was heartening to find how many people read the first issue of the JATDI newsletter last quarter. We will continue to expand the information we provide as we add additional sites and users of our capability.

We had an action packed IPT meeting since the last issue and we have another Quarterly IPT scheduled 25-26 June. The key action at the last IPT was the coordination on a draft JATDI Joint Charter. Our objectives for the Joint Charter were to address the:

- PMO intention to expand the JATDI "Jointness"
- Use of IPT for directions and prioritizations of tasks
- Documenting Objectives
- Establishing responsibilities
- Providing for requirements oversite

By April all of our principal service representatives had signed the charter. As a result, we have a more documented and disciplined process as a roadmap for our tasks in FY01.

NAVAIR PROJECT MANAGEMENT OFFICE (PMO) NEWS

The JATDI Project Management Office was initiated and is currently hosted by NAVAIR. The current PMO staff is:

- Project Manager – Stacy Cummings
- Technical Integration – Paul Behrens
- PMO Support Contract Coord. – Tracie Kuchark-Owens
- Conversion Contract Coord. – George Rose
- Hardware/Software Acquisitions – Glen Crutchfield
- Interns – rotational assignments

The Joint Aviation Technical Data Integration (JATDI) concept defines a technical data integrated environment whereby technical data and maintenance expertise are more readily available and accurate as KNOWLEDGE for the warfighter, by a cheaper and faster means.

JATDI team personnel have been quite active in defining capabilities and requirements for the Project in 2001. Several capability demonstrations have been provided. System sustainment, maintenance, and enhancements continue-- all aimed toward the primary JATDI goal of supporting the modern Warfighter.

USS A. LINCOLN UPDATE

The USS Lincoln completed its full deployment in February 2001. An after-action report on their JATDI use was prepared. The report (summarized in the last newsletter) recommended a number of improvements for the JATDI capabilities. The PMO has been tracking the completion of the recommendations. Resolution on all issues from last deployment is currently 90% complete.

USS T. ROOSEVELT UPDATE

During the week of 23 April, JATDI training was presented to representatives of the USS T. Roosevelt in Fallon, NV. Currently, the PMO has two representatives, Glenn Crutchfield and John Sadler, aboard the USS Roosevelt demonstrating JATDI for all CAG1 personnel.

NAVAL AIR TECHNICAL DATA AND ENGINEERING SERVICE COMMAND (NATEC) NEWS

TM SERVER UPDATE

TM Server is a set of software modules designed to pull Technical Manuals (TMs) from NATEC and deliver them to the local aviation maintenance community via a standard web site. TM Server is a Microsoft based software application that stores information in an Access database. The 32-bit program is designed for the afloat and ashore units where requirements to maintain a local cache of Technical Manuals exists. Search capabilities are provided and automatic updates occur when NATEC publishes them.

The prototype TM Server Version 2.0 provided an FTP-based file transfer mechanism dependent on third-party products for encryption. The fielded Version 3.0 utilizes an HTTPS 128-bit encryption file transfer capability that eliminates the requirement for external encryption software. TM Server Version 3.0 has been tested and is certified on PCs operating with Windows NT and Windows 2000.

TM Server rollouts continue with high-speed local access to TMs available at MCAS Beaufort and NAS Fallon now! Hardware upgrades were also performed at TM Server existing sites MCAS Cherry Point, NAF Washington, and NAS Whidbey Island. A total of 14 sites are currently deployed as of this newsletter's publication date.

Additional servers have been staged and loaded with the TM Server software for planned installations at NAS Lemoore, NAS Willow Grove, and other sites. The typical JATDI mid-tier server is currently configured as a dual-CPU Compaq ML530 with 28 Gigabytes of available TM storage space.

Ship-based deployment of TM Server Version 3.0 took a step forward recently with completion of the PPL Test at SPAWAR Chesapeake in late March. PPL testing sets the stage for fleet approval of the latest version of the TM Server software. The test results have also been incorporated into the Systems Security Authorization Agreement (SSAA) documentation.

TM Server is installed or (planned) at the following sites:

- NAS Whidbey Island
- NAS North Island
- MCAS Miramar
- NAF Washington
- MCAS Cherry Pt.
- NADEP Cherry Pt.
- MCAS New River
- NAS Jacksonville
- NAS Fallon
- MCAS Beaufort
- NAS Lemoore (June 2001)
- MCAS Yuma (June 2001)
- NAS Norfolk (June 2001)
- NAS Oceana (June 2001)
- USS Abraham Lincoln, CVN-72
- USS Carl Vinson, CVN-70 (June 2001)
- USS Theodore Roosevelt, CVN-71

A JATDI TM Server Nightly Download Statistics web page is now available on the NATEC Web Site. Users can search a database to find what files a particular site is downloading over a range of dates. The link is in the lower left corner of the NATEC Home Page http://www.natec.navy.mil . Once selected the user will be prompted to enter their NATEC Web Site userid. Select a site from the drop down list and fill in any other criteria, and the files downloaded by that site will be displayed. To display all of the files downloaded by all of the sites, just enter a start date or end date. Links to other JATDI web sites are available in the bottom left corner of the Statistics page.

IMPLEMENTATION NEWS

TM Server 3.0 was installed at NAS Fallon in April 2001 in support of CAG 1, which will deploy to the USS Theodore Roosevelt in 2001. All squadrons training at NAS Fallon have their technical publications automatically updated and available upon their arrival. This allows the squadrons to greatly reduce the number of technical publications they are required to bring for a training detachment.

Future potential sites for JATDI TM Server deployment include:

NAS Roosevelt Roads
NAS Sigonella
NAS Atsugi
USS Kitty Hawk
USS John F. Kennedy

The NATEC official website is http://www.natec.navy.mil/.

Questions or comments on this article? We appreciate feedback.
Please contact Mr. Doug Harder at harderdj@navair.navy.mil .

CHERRY POINT / H-60 IN SERVICE SUPPORT TEAM UPDATE

The Cherry Point SH-60 enhanced capabilities website development recently completed the integration and test phase and will enter the beta testing phase soon. Key personnel from Cherry Point have provided feedback throughout the development cycle and will continue to provide the JATDI team with input.

Website enhancements include:

- Project tracker for management
- Configuration Tracking Database interactive
- Databases converted from Access to MySql
- Content converted from Internet Information Service (IIS) server to the new Netscape Server platform
- Better search capabilities
- Security Upgrades
- Links to other services H-60 sites

Security upgrades include user registration and denial capabilities. The PM can assign users to groups with specific permissions.

The new website was showcased at the MELR conference in New Bern, NC on June 5th. The target date for the debut of the new Navy H-60 enhanced site is scheduled for the end of June. The website is http://seahawk.nadepcp.navy.mil

Questions or comments on this article? We appreciate feedback.
Please contact David A Bullock at BullockDA@navair.navy.mil .

NSWC CRANE / EA-6B TECHNICAL DATA CENTER NEWS

NSWC Crane, in our role as the EA-6B Avionics FST is moving into the IT 2000 digital data environment. JATDI has been instrumental in digitizing EA-6B data including drawings, publications, instructions, and other types of data. These electronic documents are now available to the EA-6B community via the Internet. Digital data includes:

- MTPSI data
- Test program Instructions (TPI's) for the Automatic Test Equipment
- More than 130,000 images representing ALQ-99 and other on-board EA-6B System's most active drawings.

Engineers, Logisticians, and Technicians throughout the EA-6B Avionics community now have immediate access to view data which previously "took too long to get" utilizing an Internet browser from their desktop. A Netscape Compass search engine (planned late FY01) will allow the user be able to do a complete site search from the Technical Documentation Center (TDC) main page.

Other types of data is organized and is available via easy-to-use menus/topics such as:

- ALQ-99
- MATT/IDM
- USQ-113
- Harm Control Panel
- Maintenance Plans
- Support Equipment
- Drawings

At the present time, The TDC has limited Illustrated Parts Breakdown support. Most of the major WRA's in the ALQ-99 and other Onboard Systems are identified and IPB breakouts are available to the fifth indenture level. The Band 7 Receiver has been indentured to the piece part level and represents a view of the "concept for the future". Currently this hierarchical data is displayed via static tables. A goal for FY 2001/2002 is to re-host this data in a dynamic database and extend the level of indenture similar to the Band 7 Receiver.

We are currently prioritizing a listing for additional data to be digitized in 2001/2002. If you have additional data types that you need from the TDC, or if you have specific drawings/hardware items that you need-- make the request via the Help menu in the TDC. Alternatively, you can contact us via the JATDI web site or access the NSWC Crane website directly at http://www.crane.navy.mil/tdc

The EA-6B Technical Data Center is located at NSWC Crane, Indiana. The website can be accessed via the JATDI website or directly from http://www.crane.navy.mil/tdc. If you haven't checked the site out -- please take a look.

Questions or comments on this article? We appreciate feedback. Please contact the TDC Webmaster at c802webmaster@crane.navy.mil.

COMMUNICATING ACTIVITIES

The JATDI team participated in the National Defense Industrial Association (NDIA) conference hosted in San Antonio from May 4 – 8. The event coincided with the 165th anniversary of the attack of the Alamo. JATDI provided demonstrations to key OSD and high-level service personnel.

The JATDI team participated in the Army Aviation Association of America, Inc. (AAAA), conference in Charlotte, North Carolina in April. The AAAA purpose is to advance the status, overall spirit, and the general knowledge and efficiency of those persons who are professionally engaged anywhere in the overall field of U.S. Army Aviation, including the Aviation Branch and all of its components. The AAAA website is http://www.quad-a.org/

The JATDI team exhibited at the Sea Air Space (SAS) conference on April 10-12 in Alexandria, Virginia. JATDI was represented in two key areas at this large conference-- the Naval Aviation Exhibit Area and the NAVSEA City. Additionally, JATDI personnel provided a live Internet broadcast hosted at the NAVSEA city. The Distance Support Theatre was the scene of many briefings highlighting support to the maintainers from a NAVSEA perspective. NAVSEA agencies which participated in the SAS conference included CNET, Distant Support, Dam Neck and United States Navy Chaplains, among others. JATDI provided hardware and expertise to ensure the success of our sister Projects! Broadcast archives are available from the JATDI website at

http://jatdi.redstone.army.mil/proginfo/meetings/sas/video.html . The Navy League website is http://www.navyleague.org/sas_expo2001.htm .

JATDI personnel provided exhibits at The American Society of Naval Engineers (ASNE) conference April 30 – May 1 in Arlington, Virginia. The ASNE website is http://www.navalengineers.org/

JATDI provided demonstrations for the Joint-Government/Industry Supportability Information Exchange Symposium at Redstone Arsenal in Huntsville, Alabama May 7 – 11. The website is http://www.logsa.army.mil/

Through the participation in these events, JATDI has received feedback directly from maintainers and end-users allowing for improvements in the services provided by JATDI. There are numerous event photos available on the JATDI Projects / Meetings website at http://jatdi.redstone.army.mil/proginfo/meetings/index.html .

TRAINING NEWS

Feedback and lessons learned from students and users resulted in an update of training materials by JATDI production personnel. Areas of enhancement include—

- Detailed TM-Server user and administrator training

- Website administrator and end-user functionality enhancements

The training team recently sent a facilitator to Fallon, Nevada to provide training for TM-Server, Website access and TechCam capabilities. In addition, JATDI personnel provided training to Coast Guard, Navy, Marine Corp. and Army personnel for the purpose of demonstrations of JATDI associated websites at conferences.

TIPS! FOR OUR LIBRARIANS

A tool has been created on the NATEC Web Site that allows users to look up a particular TM Server Site or a range of dates, etc. and see a line by line report of what was downloaded by that site or in that range of dates. This tool should help the librarians in the field know which manuals have been updated on their local server each night. That is one of the most frequently asked questions that has been received while installing the servers.

To use this tool—navigate to the NATEC website at http://www.natec.navy.mil and click on the JATDI TM Server link on the bottom left hand corner of the home page. Then, to use this site—

Enter your NATEC Web Site userid and password when prompted.
Select the criteria you want to look up and the report will be displayed in the frame to the right. To do another search, just enter new criteria in the search frame on the left.

Questions or comments on this article? We appreciate feedback.
Please contact Mr. Doug Harder at harderdj@navair.navy.mil .

RESEARCH AND DEVELOPMENT NEWS

The JATDI team is always looking toward the future. This quarter, extensive research and development in the area of Personal Digital Assistants (PDA) and hand held devices continues. More specifically, the Pocket PC user community is being explored. The Pocket PC is a product manufactured and marketed by a number of companies, running a standard and updated implementation of Microsoft Windows CE.

Areas of R&D as well as integration include the conversion of existing Technical Manuals into fully searchable electronic book (eBook) format suitable for viewing on a Pocket PC or on a desktop computer using the Microsoft Reader product. These eBooks can also be annotated with notes and drawings. Advantages of using this device include its portability, ease of use and user satisfaction. It is light, easy to read in all light sources and will fit into almost any pocket.

Portions of the JATDI website have already been converted to Pocket PC format and are available for reading on the Pocket PC, as was demonstrated at JATDI attended tradeshows. In the coming weeks greater portions of the JATDI website will be made available on line in the Pocket PC format. Audio and video in both self-contained and streaming formats are also under development and have been demonstrated.

The JATDI team also has been working with NAVSEA's Distance Support personnel investigating new and improved search capabilities based on "Ask Jeeves" software. The new capability would allow a maintainer to simply ask a question for answers to weapon system problems. Instead of searching for main rotor spindle bearing a maintainer could simply search for "What procedures are required for a leaky main rotor spindle bearing? This would allow pinpoint identification of information needed for specific tasks.

Tips! Helpful Facts About The Personal Digital Assistant (PDA)

What is a Personal Digital Assistant? A personal digital assistant (PDA) is a hand-held computer that allows you to store, access, and organize information. Most PDAs work on either a Windows-based or a Palm operating system. PDAs can be screen-based or keyboard-based, or both. For additional information on PDA's , visit these sites:

http://www.microsoft.com/mobile/pocketpc

http://www.microsoft.com/mobile/pocketpc/pdainfo.asp

JATDI TECHNICAL PROCESS SUPPORT TEAM NEWS

The JATDI Technical Processes Support Team has a diverse and broad scope in supporting JATDI customers, users, and contractor team members. The team has responsibilities for developing and maintaining several areas of JATDI including:

- Overall JATDI architectural blueprints
- Ensure DII compliance for all hardware/software
- Coordinate security related issues
- Develop and maintain a configuration management plan
- Develop and maintain a release management plan
- Develop and maintain quality assurance plans
- Perform Tech Refresh evaluations
- Develop and maintain a Continuity of Operations Plan (COOP)
- Provide test bed operations support
- Maintain the JATDI master technical library
- Develop system performance criteria
- Perform test bed independent verification and validation support
- Develop acquisition strategies

The Technical Processes Support Team interfaces directly with the JATDI PMO, users, customers, and other contractor teams in the day-to-day business activities for JATDI. We are essentially known as the "JATDI traffic cops".

As the Technical Processes Support Team continues to ramp up in 2001, several items have been initiated or have recently been completed:

- Coordination of the Systems Security Authorization Agreement (SSAA) for JATDI
- Draft configuration management plan
- Master technical library at PAX
- Process flow roadmaps between JATDI contractors, users, customers, and the PMO

Plans are to provide as much information as possible via the JATDI website for questions and answers in accordance with overall project schedule, guidelines and status. As always, it is a pleasure to serve you, the customer – by providing the best support possible to our warfighters. Mr. Henry Younger is the Team Lead for the Technical Processes Support.

Questions or comments on this article? We appreciate feedback. Please contact Mr. Henry Younger at qtiyounger@aol.com

JATDI BUSINESS PROCESS TEAM NEWS

At the last IPT we received a recommended priority for all potential tasks offered for accomplishment in FY01. We established an initial milestone schedule for starting each task. However, the contract for execution of the tasks was delayed an additional six weeks. Therefore, the following represents the latest approved tasks on the contract and initial milestone start dates. We have assigned initial leads who will work closely with the appropriate organizations affected by each task.

TASK	MAJOR EVENT	TEAM LEAD	PMO LEAD	MILESTONE DATES BEGIN	END
	Program Management	Greg Hambright	Stacy	05/15/2002	05/30/2002
1	JATDI Top Tier Server Farm	Dwayne Buford	Glenn	05/15/2001	05/30/2002
2	USS T. Roosevelt Full Air Wing Demonstration	Jim Moseley	Glenn	05/15/2001	05/30/2002
3	TM Server Mid Tier Server Farm Enhancements	Henry Younger	Glenn/Doug Harder	06/15/2001	05/30/2002
4	JATDI Product Support for Additional Weapon Systems				
	OH-58	Kimberley Collette	Paul/Tracie	09/15/2001	05/30/2002
	AV-8	Gary Maxwell		07/15/2001	05/30/2002
	AH-64	TBD		08/15/2001	05/30/2002
	CH-47	TBD		09/30/2001	05/30/2002
	T-700 Engine	Bill Fox		08/15/2001	05/30/2002
	J52-P408 Engine	Bill Fox		07/15/2001	05/30/2002
5	Demonstration to Army Battalion	Bill Fox	Paul/Tracie	08/15/2001	05/30/2002
6	Corpus Christi Army Depot (CCAD) Web-based Automation	Bill Fox	George	09/01/2001	05/30/2002

7	Demonstration to Air Force Squadron	TBD	Paul/Tracie	10/15/2001	05/30/2002
8	Web-Based Application Integration Demonstration		All		
	Visual Integration	Dwayne Buford		08/01/2001	05/30/2002
	Army Repository Interfaces	Barry Wilson		06/01/2001	05/30/2002
	ALRE Program Interfacing (data source)	Bill Fox		11/01/2001	05/30/2002
	CM Data	TBD		10/01/2001	05/30/2002
	NATEC	Skip Levert		07/01/2001	05/30/2002
	DLA	TBD		11/01/2001	05/30/2002
	NAVICP (Rqmts)	TBD		01/15/2002	05/30/2002
	Air Force Repository Integration	TBD		10/15/2001	04/30/2002
	NAVSUP	TBD		11/01/2001	05/30/2002
	NALDA	TBD		10/15/2001	05/30/2002
	CMIS	TBD		10/01/2001	05/30/2002
	CITIS	TBD		02/01/2002	05/30/2002
	JAHUMS Integration (Rqmts)	TBD		01/15/2002	04/30/2002
9	Web-Site Baseline		Paul/Tracie		
	KAMNET operational support	Dwayne Buford		05/15/2001	05/30/2002
	SH-60 (Cherry Pt)	Bill Fox		05/15/2001	05/30/2002
	EA-6B (Crane)	Dwayne Buford		07/01/2001	05/30/2002
	EA-6B (Jax)	Dwayne Buford		07/01/2001	05/30/2002
	H-60 (Coast Guard)	Bill Fox		08/01/2001	05/30/2002
10	TechCam Audiovisual Conferencing	Henry Younger	Glenn	08/15/2001	05/30/2002
11	Mid-Tier Integration Demonstrations	Skip Levert	Glenn	05/15/2001	05/30/2002
12	Mid-Tier Integration Support	Skip Levert	Glenn	05/15/2001	05/30/2002
13	JATDI Deployment and Sustainment Support	Dwayne Buford	Paul/Tracie	05/15/2001	05/30/2002
	Data Conversions	Al Lacy	George	05/15/2001	05/30/2001

During the next IPT, any new tasks recommended for accomplishment will be discussed, impacts identified, and a new prioritized list presented to the PMO for action. Any recommended changes will have some impact but we believe they can be accommodated within the above task lists on the contract.

All of our JATDI teams are very excited to finally begin accomplishing the FY01 workload.

Questions or comments on this article? We appreciate feedback. Please contact Mr. Bill Fox at william.c.fox@lmco.com .

ARMY JATDI INITIATIVES

There are several projects planned or underway that are tightly integrated with JATDI.

Configuration Tracking System

The Configuration Tracking System (CTS) is an ARMY developed system that has been deployed to the UH-PMO. CTS helps users determine the configuration of any Blackhawk helicopter in the world at any time using a Web-based interface. The system accesses and integrates data from multiple external legacy databases and utilizes AMCOM's existing Web-based maintenance infrastructure.
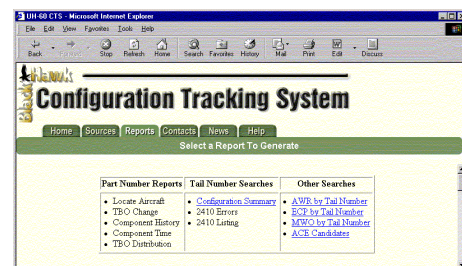
By letting users query multiple databases simultaneously from a single, secure intranet, CTS dramatically speeds up the UH reporting process and eliminates error-prone re-keying and other manual processes. The system pulls the exact data users need without significantly impacting the underlying system, increasing data access without requiring costly system upgrades or replacements. And because the system is based on COTS products, it can be expanded or altered to grow with evolving standards. In future phases, UH-PMO can easily integrate additional databases to continually increase access to their knowledge base.

Sikorsky Aircraft Corporation 3D Modeling Project

The objective of this effort is to create electronic 3-Dimensional engineering (CAD) models from converted legacy H-60 platform drawings. The drawings are maintained by Sikorsky Aircraft Company (SAC), the H-60 prime contractor.

It is estimated that there are 15,000 components at SAC that need to be modeled. It is anticipated that approximately 3,000 associated drawings will be created from these components. The resultant digital models will be in a 3-Dimensional CATIA format with 2-D associated drawings and when complete will become the engineering master database.

Benefits of this project includes enhanced support of the warfighter by providing digital 3-D models for the integration of maintenance and other efforts at depots and field repair facilities

Additional benefits include:

- 3D models provide for complete digital mock-ups and interference checking of assembled parts
- 3D models help to identify engineering errors earlier in the design process
- 3D Models readily accommodate configuration changes
- Creation of associated 2-D drawings is more productive utilizing 3D models
- 2D drawings created from the 3D models are associative and are automatically updated as the design is revised
- The drawing creation, change and release procedures are simplified
- Selected 3-D components can be displayed as opposed to an entire assembly
- Migration from hardcopy drawings to 3-D Models as the master model

Conversion of Complex Technical Documentation

Bulk conversion of complex engineering documents in support of aviation programs is another project that is underway. This conversion and indexing of Depot Maintenance documents is applicable to the AMCOM complex technical documents. Currently, this effort primarily applies to Depot Maintenance Work Requirements (DMWR's) documents but may be tailored to include future requirements for other types of complex technical documents. The government is providing a prioritized list of documents for conversion. Text data will be converted to SGML MIL-STD-40051A and MIL-STD-2361A specifications. It is ensured that SGML instances parse against the described Document Type Definitions (DTDs). Embedded engineering drawings, graphical data, and illustrations are being converted into Computer Graphics Meta-file (CGM) format IAW MIL-PRF-28003.

Questions or comments on this article? We appreciate feedback. Please contact Ronnie.Chronister@rdec.redstone.army.mil

OTHER NEWS

UH-60 WEBSITE
Improvement of the UH-60 website is a continual process. During the 2001 UH-60 Users Conference at Dallas Texas, a live video web-cast was provided utilizing the JATDI infrastructure. Presentation materials were also converted for web distribution.

In the past two months 142 new users were registered and processed into the UH-60 website.

Team Hawk Website
The bi-annual Team Hawk IPT meeting was video recorded and converted to Real Video format. It is now available for viewing along with presentation materials.

FILE DOWNLOADS
Download or print popular formats of the JATDI newsletter here.

eBook Format
Download the JATDI newsletter in eBook format here.

What's an eBook? eBooks are electronic documents that you can download and view on your Pocket PC PDA device such as the HP Jornada (pictured) or Compaq iPAQ. To read the eBook version on your PDA, you will need to download a free eBook reader first. Microsoft provides a free eBook reader that can be downloaded by clicking on the icon.

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